

### 3 The algorithms of Dijkstra and Bellman-Ford – theory

1. Functionality: Describe how the Dijkstra and Bellman-Ford algorithms function. You may clarify your explanation with pseudocode if you wish. How do the two algorithms differ from each other.
2. Table simulation: Use both algorithms and show how they find the routes in Figure 4 from node 1 to all other nodes in the network (return the final routing table and show how it developed there).

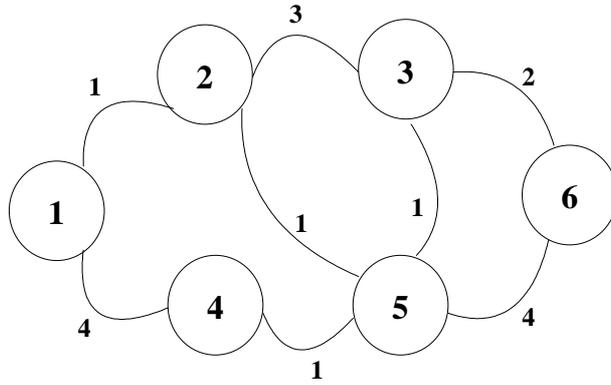


Figure 4: Network 1